Application Number		10562246
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irst Named Inventor Steph		nen John Martin Skinner
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	5	5573528		1996-11-12	Aebischer et al.				
	6	5762926		1998-06-06	Gage et al.				
	7	5853385		1998-12-19	Emerich et al.				
	8	5869463		1999-02-09	Major et al.				

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10	5888705		1999-03-30	Rubin et al.		
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12	5968829		1999-10-19	Carpentar		
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	2	20040014212		2004-01-2		Elliott et al.				
	3	20040033216		2004-02	-19	Elliott et al.				
	4	20040213768		2004-10	1-28	Elliott et al.				
	5	20050106128		2005-05	i-19	Elliott et al.				
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	1	96/40178	wo			1996-12-19	Research Corporat Technologies	ion		
	2	99/36565	wo			1999-07-22	Human Genome Sciences, Inc.			
	3	99/36565 99/49734	wo			1999-07-22		_		

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First Named Inventor 2000-06-04
First Named Inventor 3 Stephen John Martin Skinner
Art Unit
Examiner Name Attorney Docket Number 36697.16

	5	00/66188	wo	A2	2000-11-09	Diatranz Limited	
	6	00/66188	wo	A3	2007-01-16	Diatranz Limited	
	7	01/52871	wo			Diatranz Limited	
	8	02/32437	wo			Diatranz Limited	
	9	03/039566	wo	A2		Elliott et al.	
	10	03/039566	wo	A3		Elliott et al.	
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	12	2216055	CA			McGill University	
	13	250834	NZ			Elliott	
	14	502473	NZ			Diatranz Limited	
	15	507616	NZ			Elliott	

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	1		ASTA et al., "Xenotransplantation of Microencapsulated Neonstal Procine Islets (NIP) in Diabetic Recipients: Pre- linical Trais," ACTA Diabetiologica, 37, No. 3, pg. 145, September 2000.								
	2	BEAL et at., "Differential Sparing of Somatostates-Neuropeptide Y and Chollengic Neurons following Striatal Exototoxin Lesions," Synapse, 3(1):38-47, 1999.									
	3	BORLONGAN et al. "Locomotor and Passave Avoktance Deficits Following Occlusion of the Middle Cerebral Artery."  — Physiology & Behavior, 58:509-17, 1995.									
	4	BORLONGAN et al., "Elevated Body Swine Test: A New Behavioral Parameter for Rats with 6+hydroxydopemine- Induced Hemparkinconsin," Neuroed., 15:5372-8, 1995.									
	5		BORLONGAN et al., "Strated Departme-Mediated Motor Schavor is Altered Following Occlusion of the Middle Cerebral Artery," Pharmacology Blochemistry and Schawlor, 52:225-8, 1993.								
	6	BORLONGAN et al. "Inte Neuroprotection in a Roo						ids Plexus Provides Stru 10, 2004.	ctural and Functional		
	7	BRANDHORST et al., "S Temperature Pancreas I						olating Utilizing Liberase August 1999.	HI for Enzymatic Low		
	8	CALAFIORE et al., "Effe Transplant Proc. 4:212			lyarninoa	cidic Coher	ent M	licrocapsule Transplantat	ion in Adult Pigs,"		

Application Number		10562246
Filing Date		2003-06-24
First Named Inventor	Steph	en John Martin Skinner
Art Unit		
Examiner Name		
Attorney Docket Numb	ec	36697 16

9	CALAFIORE, "Actual Perspectives in Biohybrid Antificial Pancreas for the Therapy of Type 1, Insulin Dependent Diabetes Melitus," Diabetes Metab. Rev., 14(4):315-324, December 1998.	
10	CALAFICRE et al., "Transplantation of Pancrestic Islets Contained in Minimal Volume Microcapsules in Diabetic High Mammallan," Ann. N.Y. Acad. Sci., 975:219-232, 1999.	
11	CAVANAGH et al., "Improved Pig Islet Yield and Post-Culture Recovery Using Liberase PI Purified Enzyme Blend," Transplant. Proc., 30(2): 367, March 1988.	
12	CLARK et al., "Islet Cell Culture in Defined Serum-Free Medium," Endocrinology, 126:1895-1903, 1990.	
13	ELLIOTT et al., "The Use of Nicotinamide in the Prevention of Type 1 Diabetes," Ann. N.Y. Acad. Sci., 696:333-41, 1993.	
14	ELUOTT et al., "No Evidence of Infection With Porone Endogenous Retrovirus in Recipients of Encapsulated Porone iset Xenografis," Cell Transplantation, 9:895-901, 2000.	
15	EMERICH et al., "Implants of Encapsulated Human CNTF-Producing Fibroblests Prevent Behavioral Deficits and Stristal Degeneration in a Rodent Model of Huntington's Disease," J. Neurosco., 16(16):5188-5181, 1996.	
16	FAHN et al., "Double Blind Controlled Triet of Human Embryonic Dopaminergic Tissue Transplants in Advanced Parkinson's Disease: Clinical Outcomes," Neurology, 52 [Suppl 2]:A405, April 1999.	
17	FUKUDA et al., "Astrocytes Are More Vulnerable Than Neurons to Cellular Ca2+ Overload Induced By A Mitochondrial Toxin, 3-Nitropropionic Acid," Neurosci., 67(2) 497-507, 1998.	
18	KALLMANN et al., "Toxicity of Chemically Generated Nitric Oxide Towards Pancreatic Islet Cells Can Be Prevented By Nicothamide," Life Sciences, 51:671-678, 1992.	
19	KITADA MASAKKI et al. "Ascoral Regeneration in the Central Nervicus System is Enhanced by Ependymal Cell Transplants," Necoto. Research Supplement, 22:S318, 1989. XP000907952 51st Annual Meeting of the Japan Neuroscience Society and the First Joint Meeting of the Japan Neuroscience Society and the Japanese Society for Neurochemistry, Tokyo, Japan, September 21 – 23, 1998. ISSN 0921-8096.	

Application Number		10562246
Filing Date		2003-06-24
First Named Inventor	Steph	en John Martin Skinner
Art Unit		
Examiner Name		
		00007.40

20	KOPYOV et al., "Safety of Intrastriatal Neurotransplantation for Huntlington's Disease Patients," Experimental Neurology, 149 97-106, 1999.	
21	KORBUTT et al. "Cotransplantation of Allogeneic Islets with Allogeneic Testicular Cell Aggregates Allows Long-Term Graft Survival Without Systemic Immunosuppression," Diabetes, 46: 317-322, Feb. 1997.	
22	KORDOWER et al., "Cellular Delivery of Trophic Factors for the Treatment of Huntington's Disease: Is Neuroprotection Possible?," Experimental Neurology, 159 4-20, 1999.	
23	KREWSON et al, "Distribution of Nerve Growth Factor Following Direct Delivery to Brain Interstitium," Srain Res., 680 (1-2):196-206, 1995.	
24	LANZA et al., "Sichtybrid Artificial Pancreas: Long.—Term Functioning of Discordant Islet Xenografts in Streptozologic Diabetic Rats," Transplantation, 56:1067-1072, 1993.	
25	LINDVALL, et al., "Histochemical, Ultrastructural and Fundional Evidence for a Neurogenic Control of Cerebrospinal Fluid Production From the Choroid Pleaus," Acta Physiologica Scand. Suppl., 452:77-86, 1977.	
26	LONDON et al., "A Simple Method for the Release of Islets by Controlled Collagenase Digestion of the Human Pancreas," Transplantation, 49(6):1109-1113, June 1990.	
27	LUCA et al., "Serioli Cell-Induced Reversal of Audit Rat Pancreatic Islet B-Cells Info Fetsi-Like Status: Potential Implications for Islet Transplantation into Type 1 Diabetes Meillitus," J. Invest. Medicine, 48(6) 441-448, Nov 2000.	
28	MAKI et al., "Porcne Islets Xenotransplantation Utilizing a Vascularized Bioartificial Pancreas," Ann. of Transplantation, 2(3) 69-71, 1997.	
29	MARTI et al., "Systemic Hypoxia Changes the Organ-Specific Distribution of Vascular Endothelial Growth Factor and its Receptors," Proc. Natl. Acad. Sci., 96.15809-15814, 1998.	
30	MEHLER et al., "Progenitor Cell Biology Implications for Neural Regeneration," Arch. Nerol. 56:780-784, 1999.	

Application Number		10562246
Filing Date		2003-06-24
First Named Inventor	Steph	en John Martin Skinner
Art Unit		
Examiner Name		
		00007 40

31	NGO et al., "Computational Complexity, Protein Structure Prediction, and the Levrithal Paradox," The Protein Folding Problem and Tertiary Structure Prediction, Birkhauser Boston: Boston, MA, 1994.	
32	ORIVE et al., "Cell Encapsulation: Promise and Progress," Nature Medicine, 9(1):104-107, 2003.	
33	PARDRIDGE, "Peptide Drug Delivery To The Brain," 1991, 114-122, 305; 307, New York: Raven Press.	
34	PAXINOS et al., "The Rat Brain in Stereotaxic Coordinates," Academic Press, New York, 1996.	
35	PU et al., "Effect of Lignocaine in Myocardial Confusion: An Experiment on Rabbit Isolated Heart," Brit. J. Pharmacol. 118:1072-1078, 1996.	
36	RAO et al., "Chorold Plerus Epithelial Expression of MDR1 P Glycoprolein And Multidrug Resistance-Associated Protein Contribute to the Blood-Cerebrospinal-Fluid Drug-Permeability Barner," Proc. Natl. Acad. Sci., 96.3900-3905, 1999.	
37	RAYAT et al., "Expression of Gal (1,3) Gal on Neonatal Porone Islet B-Cells and Susceptibility to Human Antibodyl Complement Lysis," Diabetes, 47:1406-1411, September 1998.	
38	RAYAT et al., "Potential Application of Neonalal Porcine Islets as Treatment for Type 1 Diabetes: A Review," Ann. N.Y. Acad. Sci., 875 175-188, 1999.	
39	RUDINGER, "Characteristics of the Amino Acids as Components of a Peptide Hormone Sequence," University Park Press: Baltimore, MD, pp. 1-7, 1976.	
40	SALZBERG-BRENHOUSE et al., "Inhibitors of Cycloonygenase-2, but Not Cycloonygenase-1 Provide Structural and Functional Protection against Quanolinic Acid-Induced Neurodegeneration," J. of Pharmacology and Experimental Therapeutics, 306 216-228, 2003.	
41	SAURA et al, 'Neuroprotective Effects of Gy-Pro-Giu, the N-terminal Tripeptide of IGF-1, in the Hippocampus in vitro,' Neuroendocrinol., 10(1):161-164, 1999.	

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) Art Unit Examiner Name Attoney Docket Number | 10562246 | Filing Date | 2003.06-24 | First Named Inventor | Stephen John Martin Skinner | Art Unit | Examiner Name | Attoney Docket Number | 36697.16

	42	20(2):183-196, 2000.	-
	43	SELAWRY et al., "Sertoli Cell-Ennohed Fractions in Successful Islet Cell Transplantation," Cell Transplantation, 2:123-129, 1993.	

SEGAL. "The Choroid Plexuses and the Barners Between the Blood and the Cerebrospinal Fluid." Cell Mol. Neurobio.

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Name/Print	Mark D. Moore, Ph.D.	Registration Number	42.903

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